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~~Plastic container with snap lid and a sealing web located on the inside of the container~~Patent claims

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1. Plastic container with a snap lid, the container having an upper edge region, an inside and a snap element provided on the upper edge region of the container for the lid to snap onto, where the lid has a circumferential sealing web projecting downwards that contacts the inside of the container providing a sealing region, where at least one projection that extends in an essentially radial and essentially vertical direction is provided on the lid radially inside the sealing web, c h a r a c t e r i s e d i n t h a t the vertical extension of the area of the projection adjacent to the sealing web is small relative to the total vertical extension of the projection.

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2. Container as per Claim 1, c h a r a c t e r i s e d i n t h a t areas of the projection adjacent to the sealing web are provided which are designed as walls extending perpendicularly to the sealing web, the vertical extension of the walls adjacent to the sealing web is small relative to their total vertical extension.

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3. Container as per Claim 1, c h a r a c t e r i s e d i n t h a t the projection is spaced radially apart from the sealing web located on the inside of the container.

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4. Container as per Claim 3, characterised in  
t h a t the projection is located on an inside circumfe-  
rential edge integrally moulded on the sealing web an ex-  
tends radially inward from the circumferential edge.
5. Container as per Claim 4, characterised in  
t h a t the circumferential edge extends in the radial  
direction over one or more times the wall thickness from  
the inside of the sealing web and at least one projection  
is located radially inside relative to the circumferential  
edge.
6. Container as per Claim 1, characterised in  
t h a t the area of the projection integrally moulded on  
the sealing web is spaced apart from the area of the sea-  
ling web that provides the greatest sealing effect.
7. Container as per Claim 1, characterised in  
t h a t the sealing region of the sealing web is in the  
region of the vertical height of the projections.
8. Container as per Claim 1, characterised in  
t h a t at least one projection is integrally moulded on  
the lid at the height of the top side of an area extending  
radially inwards from the sealing web and sloping down  
towards the inside of the container.
9. Container as per Claim 1, characterised in  
t h a t an additional circumferential sealing region is  
provided and in that areas of the projection of the lid  
integrally moulded on the sealing web and extending radial-  
ly inward are spaced vertically apart from the additional  
sealing region.
10. Container as per Claim 9, characterised  
i n t h a t, the additional circumferential sealing  
region is arranged in the region of the top edge of the

container.

11. Container as per Claim 1, characterised  
in that an indentation is formed in the inside  
wall of the container below the sealing web, on which  
the lower, free end of the sealing web can rest.
12. Container as per Claim 11, characterised  
in that an area projecting upwards beyond the  
bottom edge of the web is provided on the inside wall  
of the container, which lies radially inward relative  
to the circumferential sealing web.
13. Container as per Claim 1, characterised  
in that the inside lid surface on the inside of  
the container is positioned at a level not higher than  
the bottom edge of the sealing web.
14. Container as per Claim 1, characterised  
in that at least one radially projecting reinforcing  
rib is integrally moulded on the container edge in  
the region of the top edge of the container.
15. Container as per Claim 1, characterised  
in that the sealing region of the sealing web on  
the inside of the container is roughly level with the  
outer snap edge.
16. Container as per Claim 14, characterised  
in that the sealing region of the sealing web on  
the inside of the container is roughly level with the  
outer reinforcing rib of the container.
17. Container as per Claim 1, characterised  
in that a further sealing region between the top  
edge of the container and the lid is provided with a  
circumferential seal made of a material of greater  
elasticity than that of the container and the lid.

18. Container as per Claim 1, characterised  
in that the container has a main axis and that an  
area which slopes down towards the inside wall of the  
container and is at an acute angle to the main axis of  
the container is provided radially inward on the top  
edge of the container.
19. Container as per Claim 17, characterised  
in that the container has a main axis and that the  
seal is provided with an area which slopes down towards  
the inside wall of the container and is at an acute  
angle to the main axis of the container is provided  
radially inward on the top edge of the container.
20. Container as per Claim 1, characterised  
in that at least one contact surface for lateral  
contact with the lid, which projects radially outward,  
is integrally moulded on the area adjacent to the top  
edge of the container on the outside.
21. Container as per Claim 1, characterised  
in that the outside of the upper region of the  
container has a downward-facing circumferential collar  
region, which is joined in the region of the top edge  
of the container.

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the inside of the container

Summary

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The invention relates to a plastic container with a snap lid and with a snap element provided on the upper edge region of the container for the lid to snap onto, where the lid has a circumferential sealing web projecting downwards that contacts the inside of the container, where at least one projection that extends in an essentially radial and essentially vertical direction is provided on the lid radially inside the sealing web. In order to design a plastic container with snap lid, which fulfils the special demands imposed on leak-proofness, while simultaneously providing high load-bearing capacity, a container is proposed in which the vertical extension of the area of the projection adjacent to the sealing web is small relative to the total vertical extension of the projection. The inward-facing projection can be located on an inside circumferential edge integrally moulded on the sealing web. In addition to the sealing web, another circumferential seal is provided in the region of the top edge of the container. (Fig. 2)